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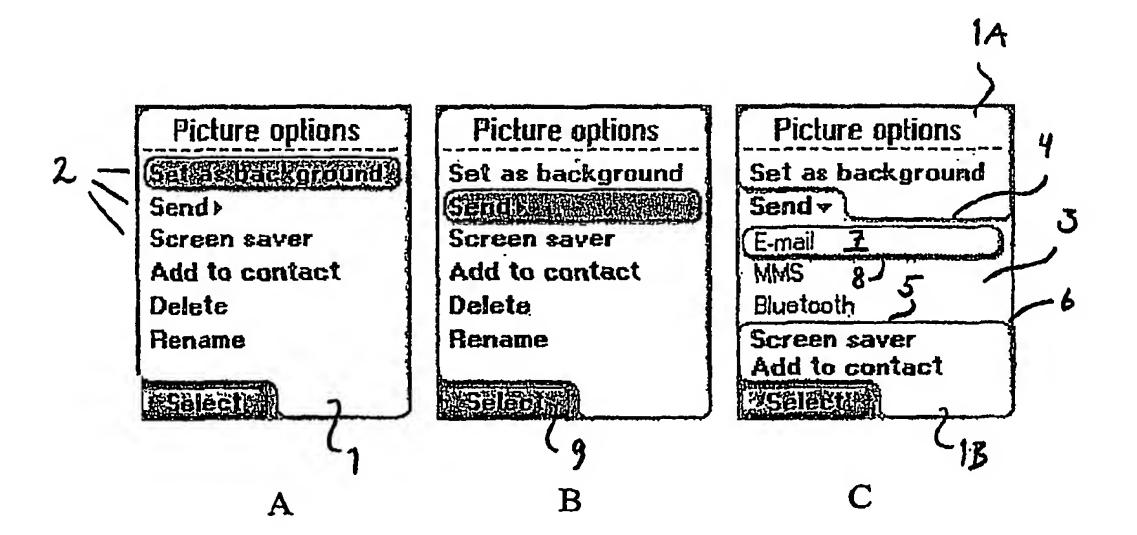
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#### **Declarations under Rule 4.17:**

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations
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[Continued on next page]

(54) Title: GRAPHICAL USER INTERFACE FOR EXPANDABLE MENUS



(57) Abstract: A graphical user interface for a display devised for presentation of hierarchical information, comprising a first menu field (1) carrying a list of menu items (2), at least one of said menu items indicating a submenu field which is expandable within said first menu field. A graphical layer effect (4) is applied to an expanded submenu field such that said submenu field is displayed as an underlying layer (3) to the first menu field. Said graphical effect may comprise the visualisation of an edge (4) between displayed layers or a shadow (4) on an underlying layer from an overlying layer. Preferably, an expanded submenu field, located between two menu items, the first menu field is displayed as being separated into two first menu fields (1A, 1B) revealing said underlying layer there between.

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- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations
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A: CLASSIFICATION OF SUBJECT MATTER IPC 7 GO6F3/033 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) GO6F HO4M IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, IBM-TDB C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Category \* Relevant to claim No. Y US 5 801 703 A (BOWDEN ET AL) 1-13 1 September 1998 (1998-09-01) cited in the application column 3, line 5 - column 6, line 21; figures 3,4 GB 2 354 142 A (\* LG ELECTRONICS, INC) 1-13 14 March 2001 (2001-03-14) page 7, line 9 - page 9, line 4; figure 6 A EP 1 182 853 A (SONY CORPORATION) 1-13 27 February 2002 (2002-02-27) figure 7a US 6 005 567 A (NIELSEN ET AL) 1 - 1321 December 1999 (1999-12-21) column 2, line 20 - line 59; figure 2 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: \*T\* later document published after the International filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not cited to understand the principle or theory underlying the considered to be of particular relevance invention \*E\* earlier document but published on or after the international \*X\* document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another "Y" document of particular relevance; the claimed Invention citation or other special reason (as specified) cannot be considered to involve an Inventive step when the "O' document referring to an oral disclosure, use, exhibition or document is combined with one or more other such docuother means ments, such combination being obvious to a person skilled document published prior to the international filing date but in the art. later than the priority date claimed \*&\* document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 30 June 2005 19/07/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Wikander, A Fax: (+31-70) 340-3016

# RNATIONAL SEARCH REPORT

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Patent document cited in search repor	t	Publication date		Patent family member(s)		Publication date
US 5801703	A	01-09-1998	US	5588107	A	24-12-1996
GB 2354142	A	14-03-2001	KR CN	2000061224 1269664		16-10-2000 11-10-2000
EP 1182853	A	27-02-2002	JP EP US	2002062961 1182853 2002026494	A2	28-02-2002 27-02-2002 28-02-2002
US 6005567	Α	21-12-1999	US US	5897670 6069625	• •	27-04-1999 30-05-2000